SYSTEM C

Head Specifications Summary

Professional Condenser Microphone Elements

Electro-Voice® model CH15E hypercardioid element

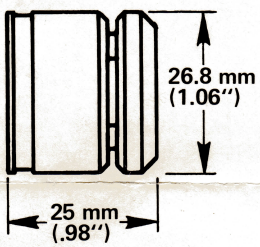


FIGURE 1 — Dimensions

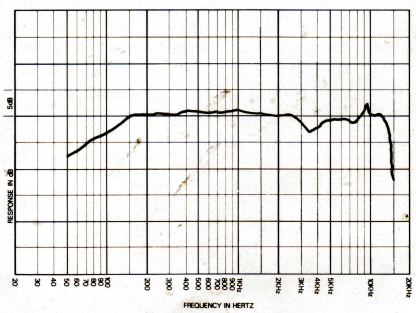
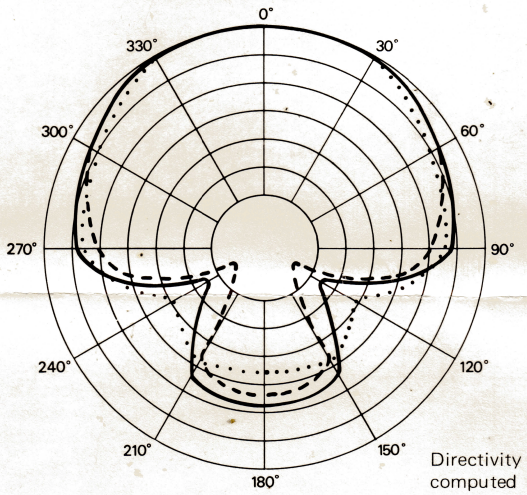


FIGURE 2 — Frequency Response

SPECIFICATIONS
Frequency Response:
55 Hz — 13.5 kHz
Polar Characteristics:
(see figures 3 & 4)
Element Capacitance:
25 pf
Output Level (w/PE 15):
—40 dB ref
(0 dB 1 mW/10 dynes/cm2)
EIA Sensitivity Rating (w/PE 15):
—132 dB
Dimensions,
Length:
25 mm (.98")
Diameter:
26.8 mm (1.06")
Weight:
46.8 g (1.65 oz)
Accessory Included:
315A Windscreen

The CH15E is a Single-D hypercardioid device with greatest off-axis rejection at 120° off-axis ± 10 degrees.



100 Hz — 400 Hz Scale Is 5 Decibels
400 Hz — 3 kHz Per Division
3 kHz — 10 kHz

FIGURE 3 — Polar Response

Polar response is measured with the microphone facing (aimed at) 0°, then rotated through 360°. The sound source is 1.5 m (5') from the microphone diaphragm.

100 Hz	— .26
250 Hz	— .24
500 Hz	— .25
800 Hz	— .24
2.5 kHz	— .20
3.15 kHz	— .23
4 kHz	— .2
6.3 kHz	— .19
8 kHz	— .13

FIGURE 4 — Directivity Index

Directivity Index (see Figure 4) is computed from polar curves run at each one-third octave center frequency across the frequency range. D_i shows directivity in dB with respect to on-axis frequency response and may be applied to the on-axis response to show power response. (See Acoustical Engineering, Olsen, pp 331 & 332) This data is useful in predetermining regenerative feedback conditions for directional elements and random incidence response for omnidirectional elements.

Electro-Voice® model CO15E omnidirectional element

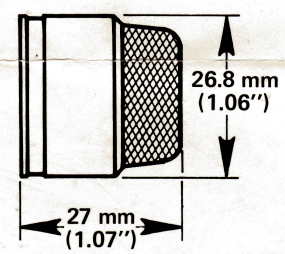


FIGURE 1 — Dimensions

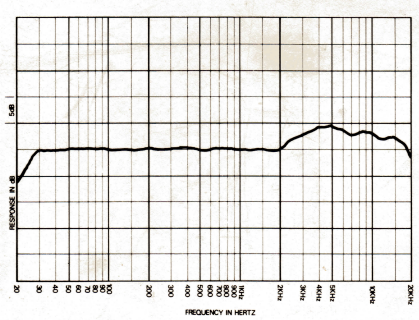
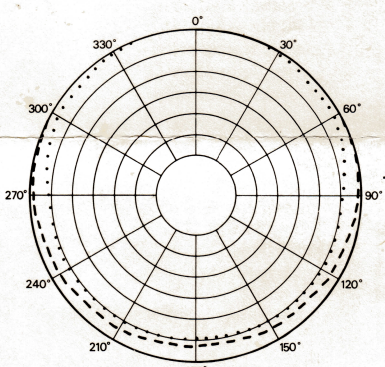


FIGURE 2 — Frequency Response

SPECIFICATIONS
Frequency Response:
20 Hz — 20 kHz ±2.5 dB
Polar Characteristics:
(see figures 3 & 4)
Element Capacitance:
18 pf
Output Level (w/PE 15):
—49 dB ref
(0 dB 1 mW/10 dynes/cm2)
EIA Sensitivity Rating (w/PE 15):
—141 dB
Dimensions,
Length:
27 mm (1.07")
Diameter:
26.8 mm (1.06")
Weight:
42.5 g (1.5 oz)
Accessory Included:
315A Windscreen

The CO15E is an omnidirectional device which exhibits little if any off-axis attenuation. See figures 3 & 4.



Scale is 5 Decibels Per Division
20 Hz — 4 kHz
4 kHz — 12.5 kHz
12.5 kHz — 16 kHz

FIGURE 3 — Polar Response

Polar response is measured with the microphone facing (aimed at) 0°, then rotated through 360°. The sound source is 1.5 m (5') from the microphone diaphragm.

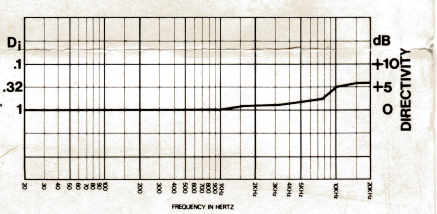


FIGURE 4 — Directivity Index

Directivity Index (see Figure 4) is computed from polar curves run at each one-third octave center frequency across the frequency range. D_i shows directivity in dB with respect to on-axis frequency response and may be applied to the on-axis response to show power response. (See Acoustical Engineering, Olsen, pp 331 & 332) This data is useful in predetermining regenerative feedback conditions for directional elements and random incidence response for omnidirectional elements.

Electro-Voice®
model CS15E single-d element

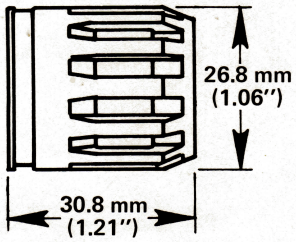


FIGURE 1 — Dimensions

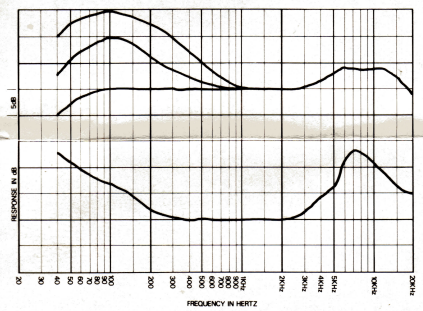
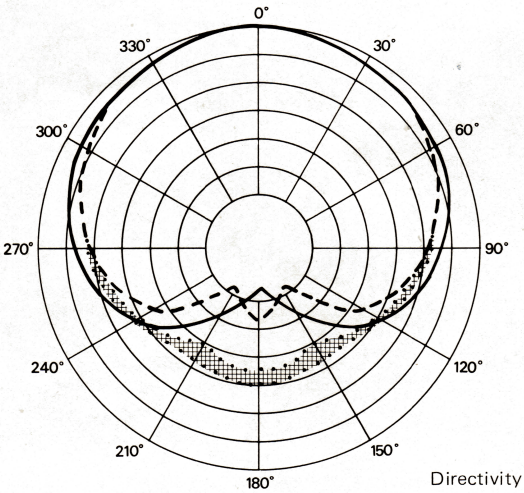


FIGURE 2 — Frequency Response

SPECIFICATIONS
Frequency Response:
40 Hz — 18 kHz
Polar Characteristics:
(see figures 3 & 4)
Element Capacitance:
27 pf
Output Level (w/PE 15):
—45 dB ref
(0 dB 1 mW/10 dynes/cm2)
EIA Sensitivity Rating (w/PE 15):
—137 dB
Dimensions,
Length:
30.8 mm (1.21")
Diameter:
26.8 mm (1.06")
Weight:
49.6 g (1.75 oz)
Accessory Included:
315A Windscreen

The CS15E is a Single-D cardioid device with greatest off-axis rejection at 180°. A Single-D cardioid exhibits proximity effect as shown in figure 2.



—— 250 Hz — 800 Hz
— — 800 Hz — 4 kHz
XXXX 4 kHz — 16 kHz
Scale is 5 Decibels Per Division

FIGURE 3 — Polar Response

Polar response is measured with the microphone facing (aimed at) 0°, then rotated through 360°. The sound source is 1.5 m (5') from the microphone diaphragm.

80 Hz	— .30
250 Hz	— .27
1.6 kHz	— .23
5 kHz	— .21
6.3 kHz	— .38
8 kHz	— .6
10 kHz	— .3
15 kHz	— .28

FIGURE 4 — Directivity Index

Directivity Index (see Figure 4) is computed from polar curves run at each one-third octave center frequency across the frequency range. D_i shows directivity in dB with respect to on-axis frequency response and may be applied to the on-axis response to show power response. (See Acoustical Engineering, Olsen, pp 331 & 332) This data is useful in predetermining regenerative feedback conditions for directional elements and random incidence response for omnidirectional elements.

Electro-Voice®
model CL42E cardiline® condenser element

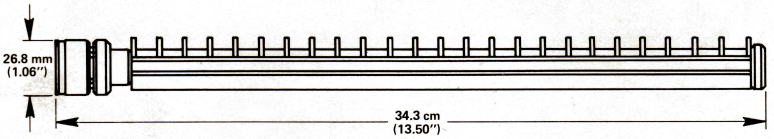


FIGURE 1 — Dimensions

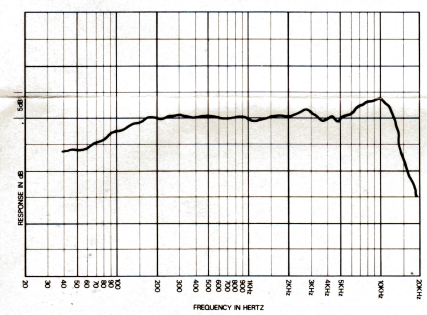
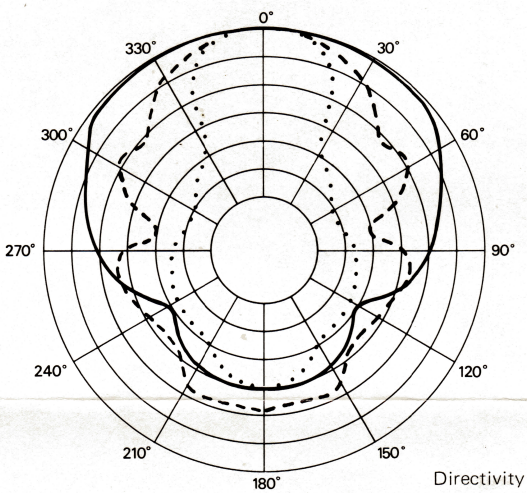


FIGURE 2 — Frequency Response

SPECIFICATIONS
Frequency Response:
90 Hz — 12 kHz
Polar Characteristics:
(see figures 3 & 4)
Element Capacitance:
30 pf
Output Level (w/PE 15):
—33 dB ref
(0 dB 1 mW/10 dynes/cm2)
EIA Sensitivity Rating (w/PE 15):
—125 dB
Dimensions,
Length:
34.3 cm (13.50")
Diameter:
26.8 mm (1.06")
Weight:
149 g (5.3 oz)
Accessory Included:
Special CL42 Windscreen

The CL42E is a Cardiline® or line interference device of a highly directional nature (see figures 3 & 4).



—— 100 Hz — 1 kHz
— — 1 kHz — 4 kHz
••••• 4 kHz — 10 kHz
Scale is 5 Decibels Per Division

FIGURE 3 — Polar Response

Polar response is measured with the microphone facing (aimed at) 0° then rotated through 360°. The sound source is 1.5 m (5') from the microphone diaphragm.

100 Hz	— .25
160 Hz	— .19
315 Hz	— .18
1 kHz	— .17
2.5 kHz	— .09
4 kHz	— .08
8 kHz	— .02

FIGURE 4 — Directivity Index

Directivity Index (see Figure 4) is computed from polar curves run at each one-third octave center frequency across the frequency range. D_i shows directivity in dB with respect to on-axis frequency response and may be applied to the on-axis response to show power response. (See Acoustical Engineering, Olsen, pp 331 & 332) This data is useful in predetermining regenerative feedback conditions for directional elements and random incidence response for omnidirectional elements.

Part Number 53273—716
a Gulton COMPANY **ELECTRO-VOICE, Inc., 600 CECIL ST., BUCHANAN, MICH. 49107**
MANUFACTURING PLANTS AT ■ BUCHANAN, MICH. ■ NEWPORT, TENN. ■ SEVIERVILLE, TENN. ■ GANANOQUE, ONT. ■ LITHO IN U.S.A.